POTOMAC ELECTRIC POWER COMPANY MR. RICHARD CHILCOAT

_J,N,X (202) 872-2000 HH,TT,BBB-M, N, X ---GG, HH, JJ, KK, LL, MM, NN, PP, RR, SS, TT, UU, AAA, BBB, CCC, DDD, EEE, FFF M,N,X,ZC, D, M, N, X, Z D,M,N,X,Z-∕AA,BB,CC AA,BB,CC~ JJ,KK,LL,MM,NN,PP,RR DD,EE,FF7 -B,D,M, SS,CCC,DDD,EEE,FFF B,D,E, M,N,X,Z-LL,MM,NN,PP,EEE,FFF A,F,G,H -AA,BB,CC,DD,EE,FF A,B,D,E,F,G,L, M,N,P,W,X,Y,ZA,B,D,E,F,G,L,M,N,P,W, X,Y,Z,AA,BB,CC,DD,EE,FF A,F,G,L,P-—— AA,BB,CC,DD,EE,FF A,F,G,K,L,P-A, F, G, K, P A,B,D,E,F,G,L,

WIRING DIAGRAM

NOT TO SCALE

A,B,E,F,L,M,N,P - 7-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)

C,D,G,H,J,K - 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)

AA,BB,CC,DD,EE,FF - MICRO-LOOP PROBE LEAD-IN

WIRING LEGEND

W,X,Y,Z - VIDEO DETECTION CAMERA CONTROL CABLE

PS - PIEZO SENSOR

ML - MICRO-LOOP PROBE SET

LW - LOOP WIRE ENCASED IN 1/4 INCH FLEXIBLE TUBING (NO. 14 A.W.G.)

GG, HH, JJ, KK, LL, MM, - 2-CONDUCTOR ELECTRICAL CABLE ALUMINUM SHIELDED (NO. 14 A.W.G.) NN,PP,RR,SS,TT,UU

M,N,P,W,X,Y,Z

AAA,BBB,CCC,DDD, - PIEZO SENSOR LEAD-IN EEE, FFF

WIRING NOTE:

- 1) EXISTING WIRING FOR EQUIPMENT WHICH IS BEING REMOVED SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.
- 2) EXISTING LEAD-IN CABLE FOR LOOP DETECTORS WHICH ARE BEING ABANDONED SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.
- 3) EXISTING WIRING NOT DETAILED SHALL REMAIN IN PLACE.

EQUIPMENT LIST

A. EQUIPMENT TEM NO. 9001 9002 9003 9004	TO BE FURNISHED BY QUANTITY I EA I EA 3 EA 22 SF	STATE HIGHWAY ADMINISTRATION DESCRIPTION VIDEO INTERFACE EQUIPMENT RETRO RACK FOUR CHANNEL LOOP DETECTOR AMPLIFIER, RACK MOUNT SHEET ALUMINUM SIGNS
B. EQUIPMENT ITEM NO.	TO BE FURNISHED AN QUANTITY	ID/OR INSTALLED BY THE CONTRACTOR. DESCRIPTION
200 8001 8002 8003 8004 8005 8006 8007 8008 8009 8010 8011 8012 8013 8014 8015 8016 8017 8018 8019 8020 8021 8022 8023 8024 8025 8027	5 CY ILS 2 EA 2 EA 2 EA 2 EA 2 EA 10 LF 10 LF 25 LF 60 EA 2 EA 2 EA 2 EA 1 EA 1 EA 1 EA 1 EA 1 EA 1 EA 1 EA 1	TEST PIT EXCAVATION REMOVE AND DISPOSE OF EXISTING EQUIPMENT RELOCATE EXISTING OVERHEAD SIGN PUSHBUTTON SIGN INSTALL CONDUIT BEND IN EXISTING BASE FURNISH AND INSTALL PIEZO SENSOR (WIM) WITH 200 FOOT LEAD IN REMOVE EXISTING GROUND MOUNTED SIGNS AND SUPPORTS I INCH ELECTRICAL CONDUIT - GALVANIZED SLEEVE 3 INCH SCHEDULE 80 RIGID PVC CONDUIT - BORED 4 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED 4 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED I INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED I INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED I INCH LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT FOR DETECTOR SLEEVE MICROLOOP PROBE, 1000 FOOT LEAD IN CABLE FURNISH AND INSTALL ELECTRICAL HANDHOLE INSTALL OVERHEAD SIGN VIDEO DETECTION CAMERA CONTROL CABLE, 250, VIDEO DETECTION CAMERA TO CONTROLLER CONTROL CABLE, 500, VIDEO DETECTION CAMERA TO CONTROLLER AS-BUILT FOR TRAFFIC SIGNAL HEAD SECTION I2 INCH VEHICULAR TRAFFIC SIGNAL HEAD SECTION ELECTRICAL CABLE - 2 CONDUCTOR (ALUMINUM SHIELDED) ELECTRICAL CABLE - 5 CONDUCTOR (NO 14 AWG) LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO 14 AWG) SAW CUT FOR SIGNAL (LOOP DETECTOR) 20 FOOT LIGHTING ARM ON SIGNAL STRUCTURE

C. EQUIPMENT TO BE REMOVED AND RETURNED TO SHA: ALL REMOVED SIGNAL MATERIALS ARE TO BECOME THE PROPERTY OF THE CONTRACTOR.

PHASE CHART

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
⟨QR- ⟨QY- ⟨QG-	(TR-) (TY-) (TG-)	R Y G	RYG	(T)	(TY)	R Y G	RYG	R Y G	R Y G QG	RYG	R Y G	R Y G	R Y G	P	(M)

		,		,														
	PHASE 1 & 5	⊲ G-	⊲ G−	R	R		⊲ G−	R	R	R	R	R	R	R	R	DW	DW	₽ ₹
	1 & 5 CHANGE				THE	CONTROL	LER MA	YSKIP	TO PHAS	SES 1 &	6 OR 2	2 & 5 C	IR 2 & 6	5				
	PHASE 1 & 6	⊲ G−	⊲ G−	G	G	⊲R-	⊲R-	R	R	R	R	R	R	R	R	DW	DW	↓
	1 & 6 CHANGE	۷- ۷-	△ Y-	Y	Y	⊲R-	⊲R-	R	R	Ŕ	R	R	R	R	R	DW	DW	4
R,	PHASE 2 & 5	⊲R-	⊲R-	R	R	⊲ G-	□ G -	G	G	R	R	R	R	R	R	DW	DW	A
	2 & 5 CHANGE	⊲R-	⊲R-	R	R	⊲ Y−	⊲Y-	Y	Υ	R	R	R	R	R	R	DW	DW	
	PHASE 2 & 6	⊲R-	⊲R-	G	G	⊲R-	⊲R-	G	G	R	R	R	R	R	R	w	W	↓
_	2 & 6 CHANGE	⊲R-	⊲R-	Y	Y	⊲R-	⊲R-	Y	Y	R	R	R	R	R	R	DW	DW	 >
F	PHASE 3	⊲R-	⊲R-	R	R	⊲R-	⊲R-	R	R	R	R	R	⊲G- G	G	G	DW	DW	
	3 CHANGE	⊲R-	⊲R-	R	R	⊲R-	⊲R-	R	R	R	R	Ŕ	Υ	Υ	Y	DW	DW	
	PHASE 4	⊲R-	⊲R-	R	R	⊲R-	⊲R-	R	R	⊲G- G	⊲G- G	G	R	R	R	DW	DW	→ ↑
	4 CHANGE	⊲R-	⊲R-	R	R	⊲R-	⊲R-	R	R	Υ	Υ	Y	R	R	R	DW	DW	
	ALT. 3	⊲R-	⊲R-	R	R	⊲R-	⊲R-	R	R	R	R	R	⊲G- G	G	G	W	W	0
	PED. CLEAR	⊲R-	⊲R-	R	R	⊲R-	⊲r-	R	R	R	R	R	⊲G- G	G	G	FL/DW	FL/DW	
	ALT. 3 CHANGE	⊲R-	⊲R-	R	R	⊲R-	⊲R-	R	R	R	R	R	Υ	Υ	Y	DW	DW	0
	FLASHING OPERATION	FL/ ⊲R-	FL/ ⊲R-	FL/ Y	FL/ Y	FL/ ⊲R-	FL/ ⊲R-	FL/ Y	FL/ Y	FL/ R	FL/ R	FL/ R	FL/ R	FL/ R	FL/ R	DARK	DARK	↓ ↓ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑

TSP-3



Engineers Construction Managers

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TECHNOLOGIES

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION Office of Traffic & Safety TRAFFIC ENGINEERING DESIGN DIVISION

GENERAL INFORMATION SHEET MD 210 (INDIAN HEAD HIGHWAY) AT OLD FORT ROAD - NORTH

DRAWN BY: J. LAWRENCE F.A.P. NO. 1173J-GI CHECKED BY: A. HOTTENSTEIN PG408A2I S.H.A. NO. SHEET NO. PRINCE GEORGE'S NONE COUNTY: T.I.M.S. NO. 16021009.89 F402 10/02 LOG MILE: